# ACCOUNT

OF THE

#### MODE AND EXPENCE

OF

#### CULTIVATING

### MOSS and PEAT LANDS,

COPIED FROM

The EDINBURGH ADVERTISER,

Of May 2, 1800.



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MODE AND EXPENCE

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MOSS and PEAT LANDS.



Of May 1 1300.

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#### ACCOUNT

Of the Mode and Expence of cultivating MOSS and PEAT LANDS.

#### FOR THE EDINBURGH ADVERTISER.

SIR

AT a period when the accessity of increasing the Cultivation of Waste and Barren Grounds, and thereby the sublishence of the People, is universally solt, you cannot do a greater service to your country, than publish the sollowing interesting paper.

AGRICOLA.

#### IMPROVEMENT OF MOSS.

The Highland Society, at a late Mooting, having voted a Gold Medal of Ten Guineas value, to be presented to Mr. Smith, of Swen-Ridgemuie, Ayrsbire, for his extensive Improvement of a large track of Moss on his property, by which a large quantity of ground which formerly produced nothing, has been brought into Tillage, and so

much clear gain added to the Public Stock, we think it will be acceptable to such of our AGRICULTURAL READERS as are unacquainted with Mr. SMITH's method of IMPROVING Moss, to publish an account of it.

In many places of Scotland, the cultivation and improvement of Moss has been lately adopted with great success to the proprietors, and advantage to the public—Besides the extensive improvement made by Mr. Smith, an experiment to a considerable extent has been also made on the Estate of Pottieshill, near Bathgate; and an excellent crop produced, of Oats, Barley, Lint, Pease, and Potatoes, where nothing grew before.

Account of the mode which has been successfully practised by Mr. SMITH, of Swinridgemuir, for the improvement of his Moss Lands, between Beith and Irvine, in the County of Ayr.

Mosses are of various kinds, but may be reduced to the two following: I. Black or Peat Moss, and II. White or Flow Moss, called in Ireland, Red Moss.

The first, which is composed of the roots and sibres of heath, and other large vegetables, is more solid and tenacious than the White-moss, and in consequence, more improveable. It is generally used as peat for sucl.

The fecond retains a great quantity of water, is almost a fluid, and, when drained, is of a spongy light substance. In Mosses of this fort, there is a firstum from three to twenty-four inches thick, of a light fungous substance, above the black peat, which, when cut for fuel, is laid afide, being incapable of making peat for burning. This fort of Moss is not fo fit for improvement as the first, especially when this stratum is very thick, as it requires a longer time to confolidate, before the lime or other manure can operate upon it, and the first crops are not fo certain, though in two years it becomes nearly as good as the other, and is improved to advantage. The Mosses here are, in general, from eight to fourteen feet deep, and the fuccess in reclaiming them has been the same, whatever was their depth.

The first thing to be done, is to cut out proper main or master drains, in order to carry off the superfluous water, taking care to preserve the greatest possible level, which in every case that has yet occurred, has been easily obtained, and which drains can be, and are so constructed, as to divide the field into inclosures from fix to ten Scots acres. If the Moss declines, the inclosures may be of any dimension whatever.

The dimensions of these drains, when first made, are eight seet wide at top, by four and a half seet deep, gradually contracting to two and a half seet at bottom, and cost at the rate of one shilling per fall of eighteen and a half seet, running measure. The ridges are then to be marked off regularly, six or

feven yards broad, formed with the fpade, in the

In the center of each ridge, a space of about twenty inches is allowed to remain untouched, on each side of which a surrow is opened, and turned upon the untouched space, so as completely to cover it. Thus begun, the work is continued, by cutting with the spade, in width about twelve inches, and turning it ever, to appearance as if done with a plough, until you come to the division furrow, which should be two feet wide, cut out and thrown upon the sides of the ridges.

The depth of the division-furrow is to be regulated by circumstances, according as the Moss is wet or dry, but so as to answer the purpose of draining or bleeding the Moss, and conducting the water to the main drains.

It may here be observed, that the specess of the after-crops depends very much upon a proper formation of the ridges. They must not be made too high in the middle, for there they will be too dry for the lime to act; and near the surrows they will be too wet, which is equally prejudicial; they should therefore be constructed with a gentle declivity to wards the surrows, so as the rain which falls may rather filtrate through the ridge to the surrows, than run quickly off the surface.

The operation of digging and forming the ridges bus generally been done by contract, and where the furface is tolerably even or equal, it costs one pound thirteen shillings and four pence per Scots acre, or

two pence Halfpenny per fall; but where it is in great holes, and wheel-barrows used, it colls from two pounds to two pounds two shillings per acre.

The next operation is to top-dress the ridges with lime, at the rate of from four to eight children's per acre. Five Winchester bushels make a boll, and eight bolls a chalder, of shell lime, producing sixteen bolls powdered lime, being the ordinary measure of lime in this district (Irish lime excepted, which is only four Winchester bushels); the quicker the time is put on after being staked, the better. Coal and lime abound in the neighbourhood, and the prime cost of lime at the kilns, is one stilling and two perice per boll, shells of five Winchester bushels.

The Moss is of a considerable extent, and a narrow superficial road has been made through the middle of it, so as to admit single horse carts. A small trench or drain is cut on both sides of the road, and the road covered with gravel, or some hard substance, and seems to stand well. By this road, the sime and doing is carried in single-horse carts, and put upon the ridge from planks, by wheel-barrows. The second year after the main drains have been made, the sides consolidate so as to carry single-horse carts in summer, and the sime and doing is carried by them to the road; and the crops taken off in the same manner.

The proper season to prepare the Moss for a sint crop, is early the preceding Summer; in that case the lime aided by the heat, the after-rains, and the

Winter frosts, makes a considerable progress in the process of putrefaction, consequently forms a mould to receive the feed.

Oats are fornetimes fown as a first crop, but they very often milgive the first year, and from what I saw, and was informed, never ought to be done where dung can at any expence be procured. Potatges planted in what is called the lazy bed way, ought to be the first crap. The method is simple and attended with little expence. The Mols prepared by ridges, and limed as before described, the Potatoe-beds next spring are marked off, across the ridges, five or fix feet broad, with intermediate spaces of about two feet, as furrows or trenches. The beds are covered over with a thin stratum of dung, about eighteen fingle-horse carts to an acre, the cuttings of Potatoes are laid or placed upon the beds, about ten or twelve inches afunder, and the whole covered over with a stratum of Moss, from the intermediate trenches, which is followed by another covering from the trenches, when the Potatoe plants make their first appearance, the covering in whole four or five inches. In this state they remain without any hoeing till the crop is taken up. The produce never less than from forty to fifty bolls of excellent Potatoes, eight Winchester bushels to the boll, and the bushel a little heaped.

When the Potatoe crop is removed, the ridges are again formed as before described, and the division-furrow cleared out, which costs at the rate of 18s. per acre.

In performing this part of the work, it will naturally occur, that a greater part of the manured surface will be buried in filling up the trenches between the lazy-beds; but that is not the case. The work-man makes two cuts with the spade, at eighteen inches distance, upon the side of the trench; another, one foot from the edge of it, as deep as the trench; which, instead of turning over, he presses a foot forward into the trench, which is continued the length of it, and when he comes to the other side, he does the same, making both meet, and so proceeds; so that no part of the manured surface is thrown down, and the ridge left in the same form as before the lazy-beds were made.

It may be here remarked, that every operation done upon Moss by the spade, can be executed at the third of the expence, that would be requisite, on any the easiest wrought dry land. Moss is a light substance, sufficiently tenacious, never sticks to the spade, and requires no force to cut it, as it works as easy as a new made cheese would. Any person who has seen Mosses dug for peats as such, will be convinced how quick, and with what sacility it is done, even by labourers not accustomed to it.

When the Potatoe crop is taken off, and the ridges formed, they remain in that state till Spring, when Oats are sown, (a wet or dry season has from experience been found a matter of indifference) and harrowed in with a small harrow drawn by two men. Four men with ease harrow at least one acre one rood per day, two and two by turns with the harrow,

and the other two in the intenth with spades, smoothing the inequalities, breaking and dividing the mould, and clearing out the division-furrows; which last, in all operations upon Moss, is elfendally necessary. The early or hot-seed Oats are always preferred for seed. The last or cold-feed runs too much to straw, falls down, and becomes sloothy, consequently the grain is of mean quality, and unproductive in meal.

EXPENCE OF IMPROVING AN ACRES
OF MOSS.

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and the ridge left in the same form as beforestly

Note.—The acre in this account, is always meant the Scott acre, being nearly one-fifth larger than the English acre.

The average fize of the inclosures is eight acres; to inclose which by the main drains, will require 143 falls, of eighteen and a half feet each, at is.

per fall in proportion for one acre, 172 falls.

Digging and forming the tidges with the division-furrows, is from 11.5

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a da Thirid	3	5	2
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## FIFTH YEAR, HAY, and lo sulta

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Produce of 200 stone?

Of Hay at 4th 1000 Service of 100 100 100 3 16 8

Cain the Fifth Year £. 3.46 8

The Moss will now be sufficiently consolidated, and fit for Pasture, and will let, as such, for al. 5s. per acre.

#### RECAPITULATION.

GAIN	THE FIRST YEAR	011 7
	SECOND YEAR -	4 3 0
	THIRD YEAR	313 8
	FOURTH YEAR -	1 0 10
	FIFTH YEAR	3 4 8

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And will let for Pasture at 11. 5s. per acre.

The reclaiming of Moss upon this plan, bids fair to be of very great consequence, and when it becomes better known, will from experience suffer further improvement. There are many thousands acres of this fort of ground in Great Britain; fituate in climates where corn thrives well; fome in the very best corn countries, where lime, marl, or other calcareous matter can be obtained at a moderate expence; which appears to be what is most essentially necessary in this improvement; and much greater, quantities of Moss abound in Ireland, none of which produces a penny per acre in its natural state. There is no danger of not obtaining a proper level, for in most large Mosses a river runs through them, and were it otherwise, and that they had no level, they would in time become lakes.

There are no waste lands which can be improved with equal advantage as Moss; none will give so quick, or so large returns, or be so permanent.— Any person possessed of Moss, and who may be desirous to make the experiment, should go himself, or send a man experienced in agriculture, to see the operations carried on at Swinridgemuir; and before he begins, endeavour to engage a labourer from that part of the country, who has been experienced in the business, which they person with great ease and dexterity, and there is no doubt but his own people will soon get into the method. If that cannot be obtained, a labourer may be sentenced work there a short time, which will answer the purpose equally well.

So large a quantity of lime as is before mentioned, perhaps is not necessary in this improvement; especially if only three crops of corn were taken before laying into grass. Six chalders, or \$40 bushels, shell lime, making 60 bolls of the measure fold at Lord Elgin's works; or 40 bolls of the Linlithgow measure, might be abundantly sufficient for one acre, and would have the same good effect as a larger quantity, especially where Potatoes, with dung are used for a first crop.

The calculations of the price of Seed and Labour as also the price of the produce of the crops, are

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estimated at the prices in ordinary years.

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There are no walls lands which can be improved with equal solvings as there is none will give for quick, or to large retains, of be for permanent.—Any period policies of the total of the total control of the delication of the total control of the period before the part of the country, who has been expensived in the bushans, which they perform with great ender and dearers and there is no denot but his own and dearers and there is no denot but his own and there is no denot but his own propie will tops yet into the marked.

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